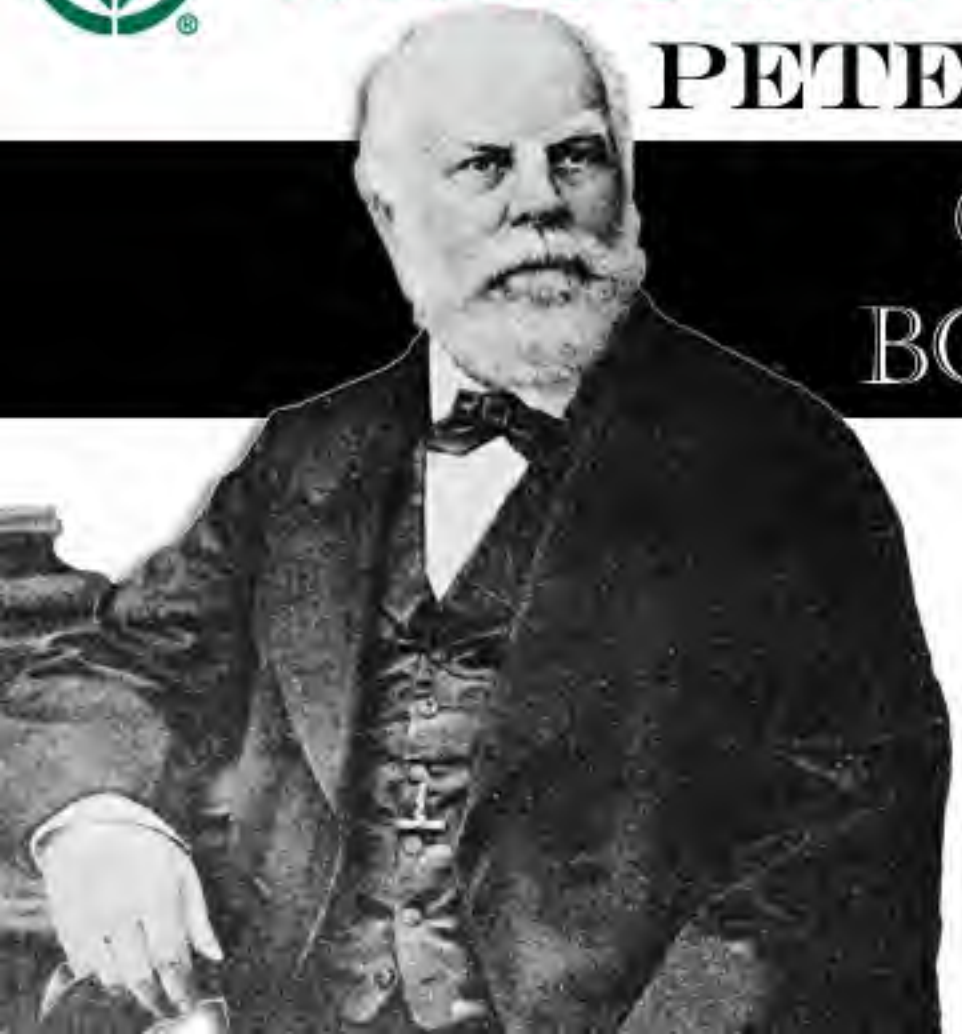
Missouri Botanical Garden
Peter H. Raven Library

George Engelmann Botanical Notebooks



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MISSOURI BOTANICAL GARDEN

No 2

14017

Fruit of Juglans Regia Chinese.
found on Mycelium No 1

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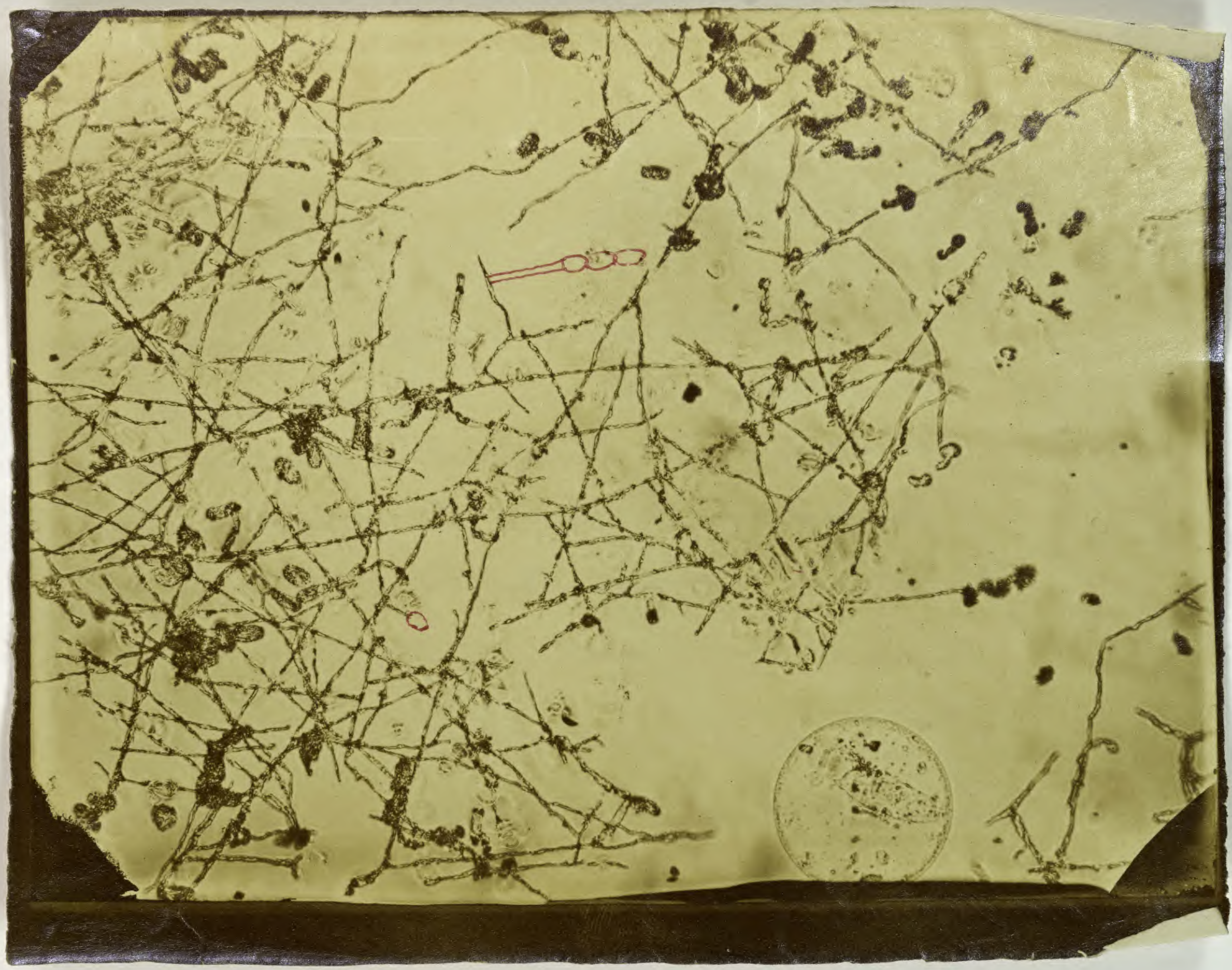
No 3



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14018

8

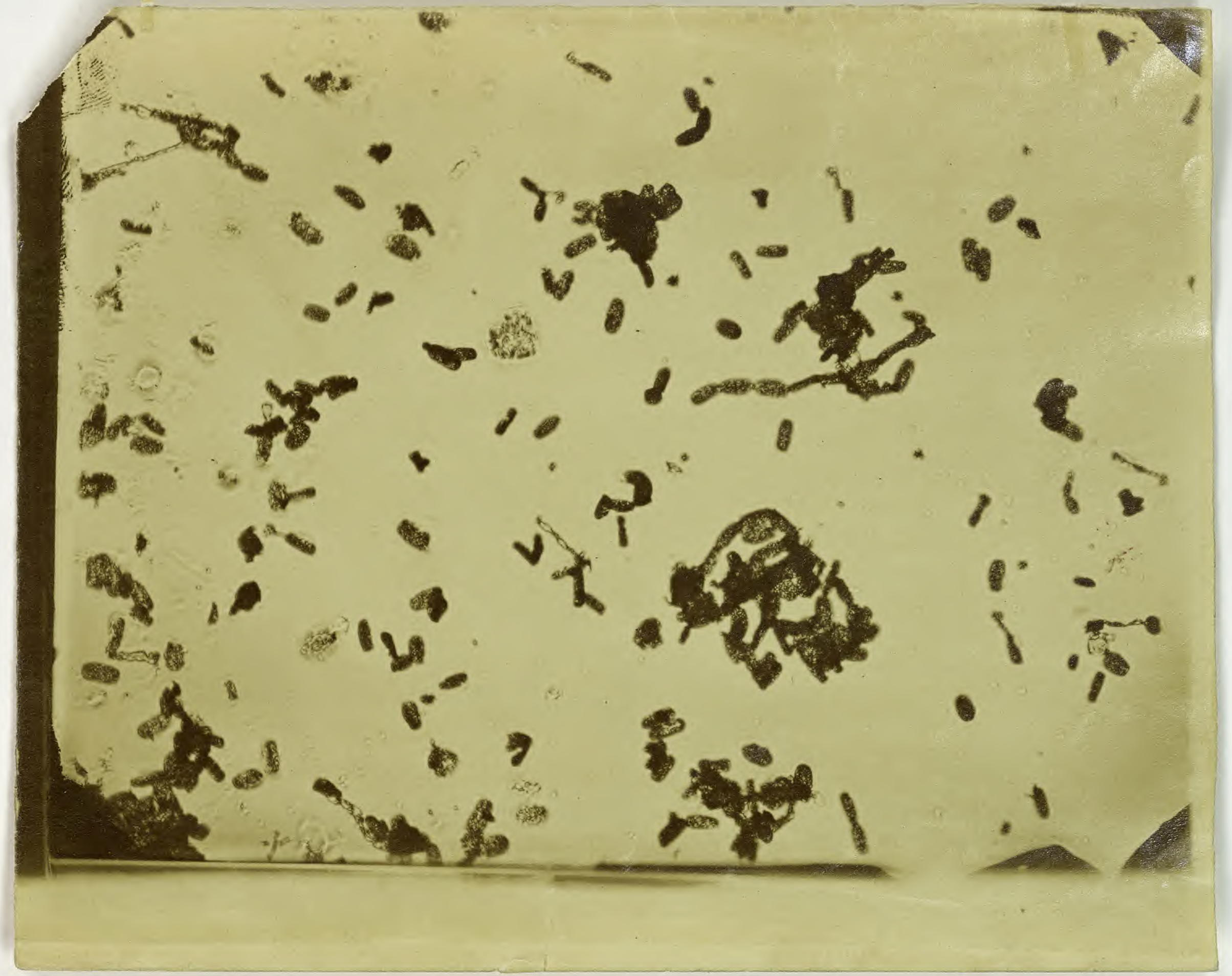
No 1 Wm Tuckers ?

When this mycelium is viewed by a high power the budding spores are seen as drawn distinctly, The is photographed by a low power & transferred thus from the photograph you will perceive that the mulden is well defined Mag.d about 100 diam Thanks

Please pass your opinion freely about these forms & is information I am after

Washington City 20th 1871.

S. Sayle



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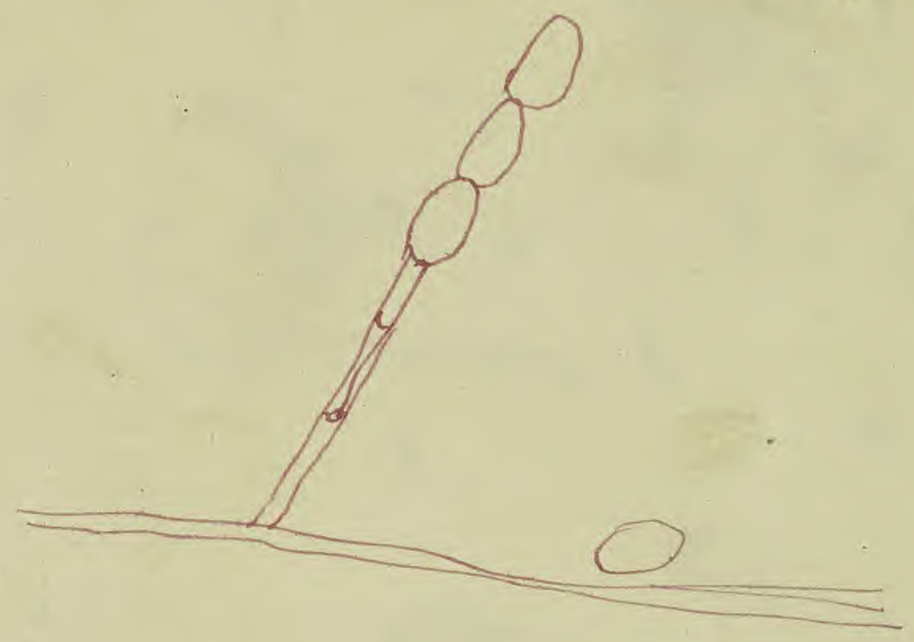
No 2

Dr. C. Parker

Spores of Mycelium No 2



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No 4. 9

Botrytis Vitieula yes
Berle & Curt

I am not sure that I am
right M A Curtis is
quite likely and cannot
attend to any thing in the line

(Fungi from the Native grape vine)

G. G.

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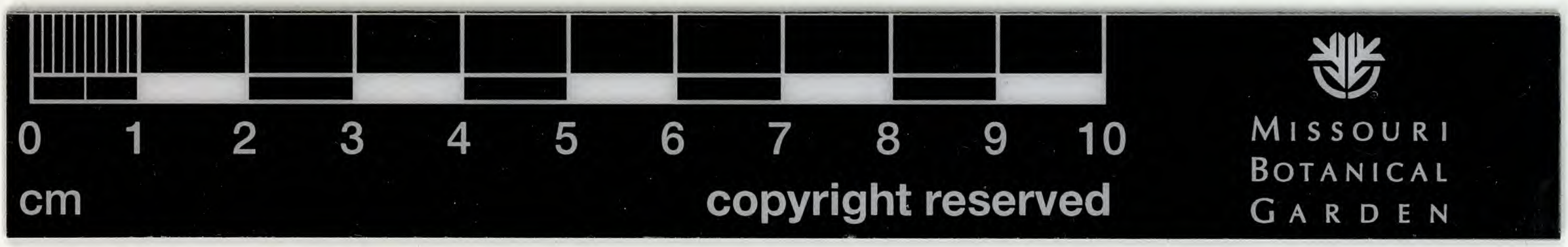

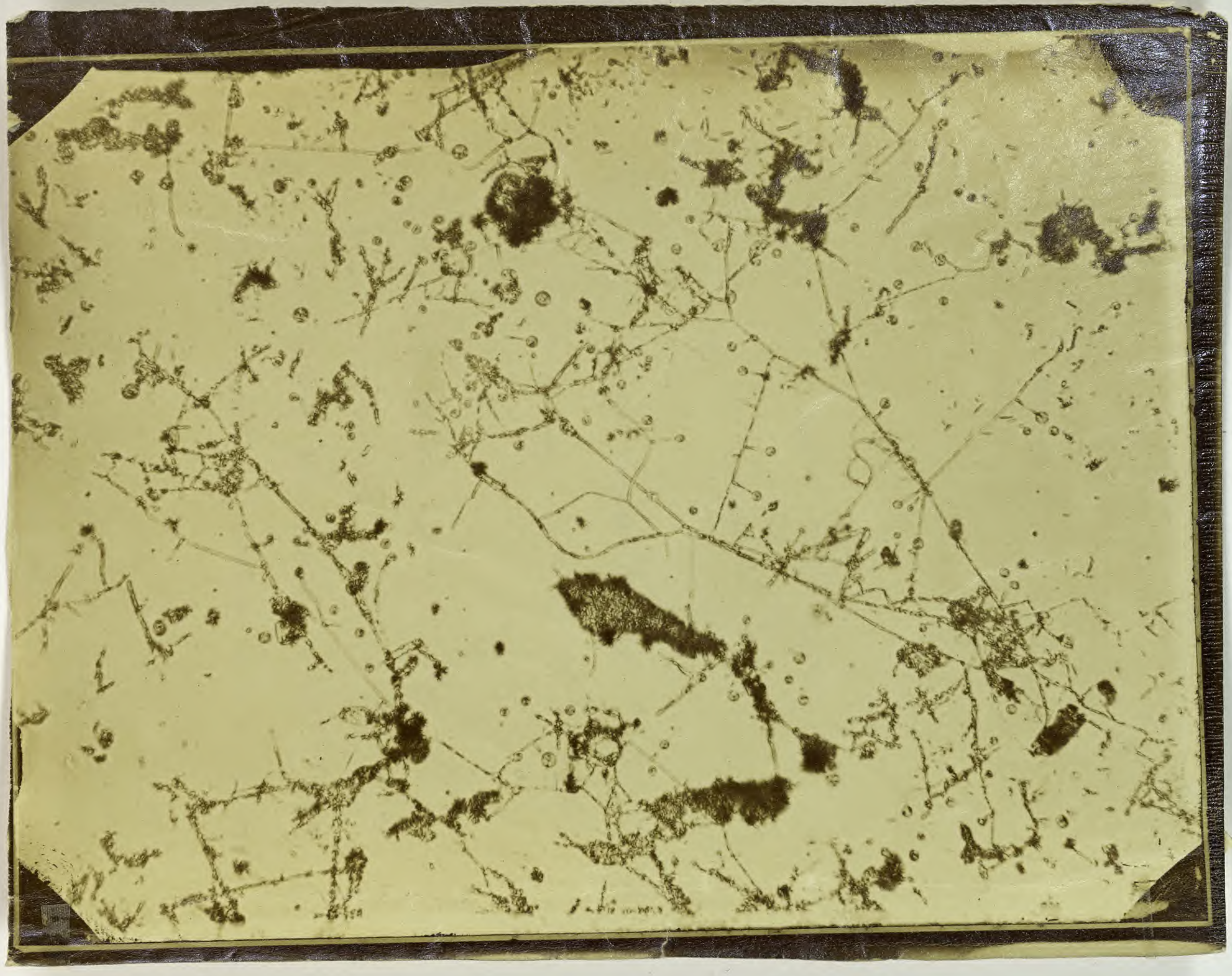

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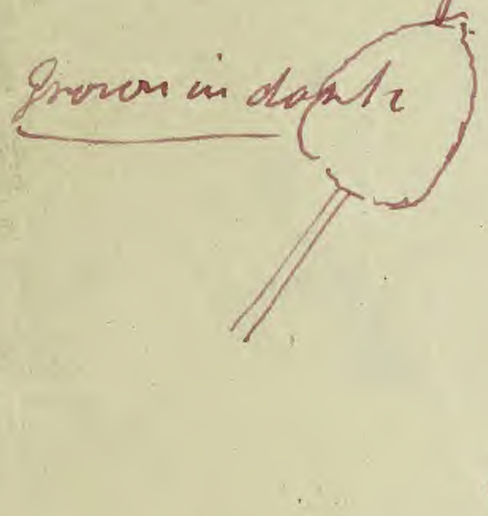
No 5 — 7

14021

After foreign grapes were placed in the dark for several day the form was found what is it a change of form of the

Phane found the blue paste mould change form when grown in the dark



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Rec April 6. 1882

Cambridge, Apr. 3.

Dear Sir,

I am much obliged for your valuable paper on the American species of Isoetes which was received this morning.

I did not mean to imply ~~th~~ in my last letter that I thought that Lidium Tuckeri had been introduced into Europe from America. On the other hand I have my doubts whether the true Lidium Tuckeri ever has been found on our native grapes

because as a rule the persons who have reported it were not in a position to distinguish Uncinula spiralis and assumed incorrectly that any Oidium on grape leaves must of course be O. Tuckeri. I think, however, that Uncinula spiralis is very likely to be introduced into Europe following the bad example of P. viticola.

Yours, respectfully
N. G. Farlow.

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Rec March 20 1882
Answ by P.C.

Cambridge, Mar. 17.

Dear Sir,

I am much
obliged for your letter
of the 13th. In the Bot. Gaz.
was the sentence "In the
region of Bordeaux the mildew
appears × × × × with such
virulence that the conidial tufts
appear not only on the leaves
and young stems but also
on the flowers and young berries,
on which parts, as far as I

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know, the fungus has never
been observed in this coun.
By <u>on which parts</u> I referred
merely to the <u>flowers</u> and <u>leaves</u>
The fungus does appear in
Cambridge on petioles and you
stems. I shall send a note to well as
the Gaz. correcting my statement never
and referring to your note on ld with
the leaves.

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About <u>Oidium Tuckeri</u> pe no
there is always a doubt tus colle
because the conidia of labelle
<u>Uncinula spiralis</u> B. & C. are Yellow
very much like those of the
<u>Oidium</u> and in Europe the
<u>Oidium</u> has not yet been
certainly connected with any
perithecial form. In this coun
<u>U. spiralis</u> abounds and its
conidia have often been
called <u>O. Tuckeri</u> by botanis

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as well as horticulturists. I have never learned what could with certainty be called C. Fuckeri on American grapes nor is there in the Curtis collection any specimen so labelled which is beyond suspicion.

Yours, respectfully,
N. G. Farlow.

Aug. 20 1882

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Rec'd July 29

DEPARTMENT OF AGRICULTURE.

Washington, D.C. July 26th 1871.

Dr. George Engelmann Locust st St Louis Mo

Dear Sir

During the last 12 month I have been devoting some time to the study of Grape vine fungus, and having portions of some of your writtings relating to the vine fungus and believing that you can assist me in naming some of the form which I have procured, transfered and Photographed, I forward some of the specimens which will give you some idea of what I am doing and some of the Photographs please keep the photographs but give names to correspond with numbers if doing so you will oblige me very much

Very respectfully

Thomas Taylor

Room 20 Agr Dept.

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Torrey Bulletin Oct 1882

Botanical Notes.—*Expansive Power of Fungi.*—The marvellous expansive power resulting from the rapid growth of the soft cellular tissue of fungi was strikingly illustrated a short time since in a grain elevator at Buffalo, N. Y.

The asphalt flooring of the building was over a foot thick, in two layers. The upper layer was seven inches thick, and was laid hot, rolled down, and thoroughly cooled four years ago. Below this there was an old floor of tar and gravel, six inches thick. A curious bulge in the floor was first noticed, covering about a square foot. In six hours the floor was burst open, and a perfectly formed toadstool, with a stem two inches through and a very wide cap, made its appearance. Elsewhere the floor was smooth and unbroken.

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Dr. Gray informs me that the plant is quite rare. This, however, is not the case at and south of San Diego, where it is rather common, but appears to have been overlooked heretofore. The same is true of *Echidocarya Californica* and *Harpagonella Palmeri.*

Salt Lake City, Utah. MARCUS E. JONES.

Adventitious leaf on Dandelion.—I have found to-day a dande-

92041

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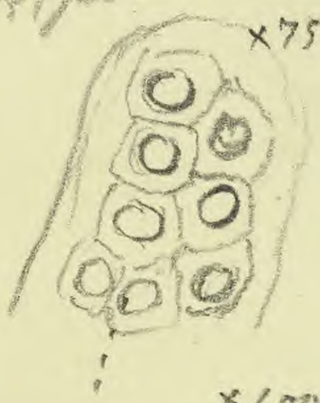
Compare Phoma concentricum Desm. Cooke p. 418 / July 27 1875

on yucca & agave

×400



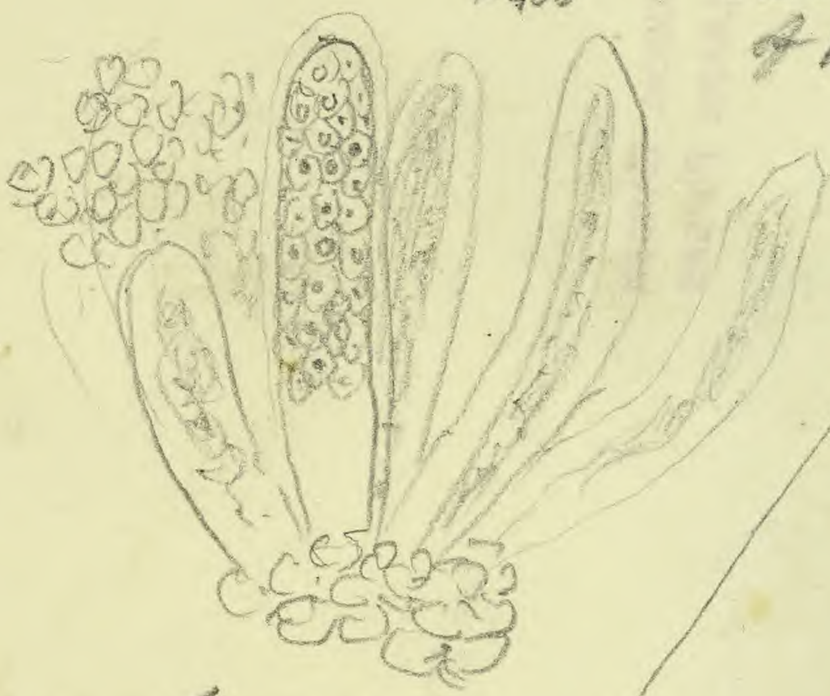
×750

on agave

San Diego

×400

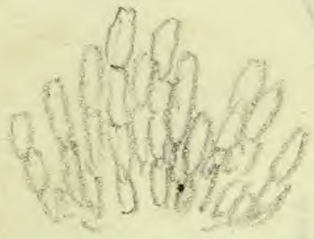
Brown mass of fungus



×400

old open fungus

×400



transparent cells

Contents of a very young fungus

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JONES & LEITCH
Lithographers
Cor. Fifth & Market Sts St LOUIS, Mo

J. M. Kirkpatrick & Co. 36 N Main St.

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cm 0 1 2 3 4 5 6 7 8 9 10
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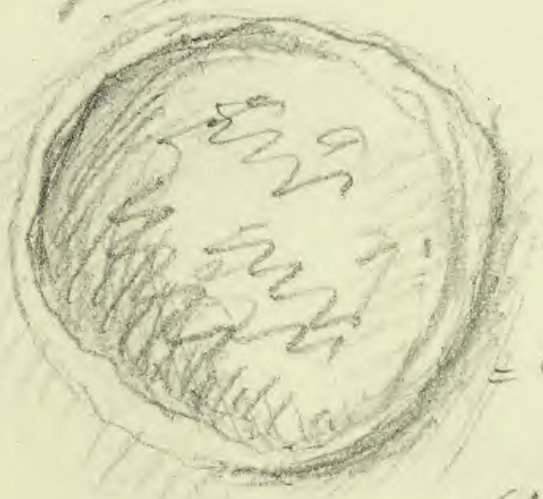
June 5th 1876

Leptosphaeria

On Grass Culms Compare Sept. .



× 150

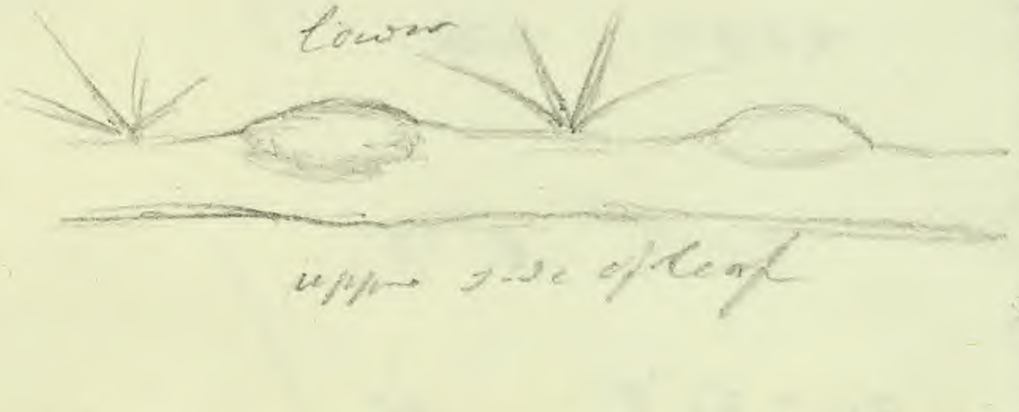
on dicotyledonous dead, upright on lower side of leaf

= 0.12 – 0.16 mm diam

mark in, with a pronounced rim

× 415

= 0.012 – 0.014 mm



Top view of Acanthorium

× 60

$\frac{8-12}{60}$ = 0.13 – 0.20

Light brown pruinose when moist, with an impression in the centre; — sunk, crater like, or like a burst bladder, when dry

among Sphaeria – Cooke rare non – oak leaves

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ALEX. LEITCH.

APOTHECARY & PHARMACEUTIST.

Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

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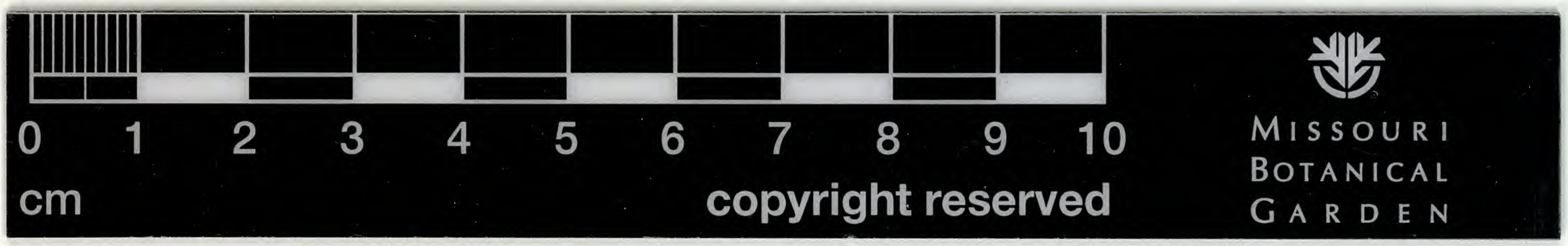

Clavaria

Nov 11 1876

× 415

5 inches high

Spores

Tissue of the fibrous filaments

Tissue of trunk

× 30

Fruit of fibrous filaments

× 30

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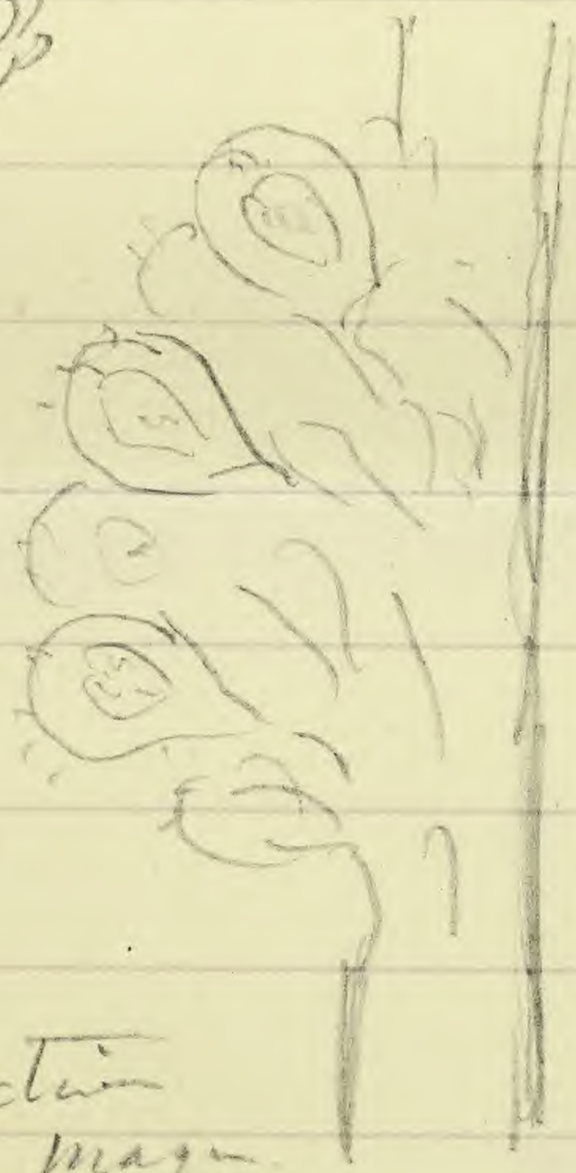
Sphaeria morbosa
on the Plum Tree

nat size

magn.

magn.



Section
magn.

very highly
magn.

Section very much
magn.

from Drawings of the U.S. Microscopist of U.S
Department of Agriculture, reproduced
in the Pacific Rural Oct 23 1880

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Phoma concentricum Desm. p. 418

= Depazea Agaves Mont

in Gaya & Agave

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17 Q. heterophy

foregoing be rea

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